

Mictrack LTE/HSDPA/GPRS

Communication Protocol V3.5

(for MT500/MT530/MT600)

Document Change History

Version	Date	Reason for Change
V1.0	5/1/2015	The first release version
V1.1	8/24/2015	Redefine the BLP/CLP/HT
V2.0	1/4/2016	Update the GPRS status
V2.1	3/15/2016	Compatible MT500/MT600
V3.0	8/2/2016	Compatible MT510
V3.1	11/30/2016	Compatible MT510G
V3.2	12/5/2016	Compatible MP90
V3.3	6/6/2017	Compatible MT530
V3.4	7/15/2017	Compatible MT550
V3.5	12/7/2017	Compatible MP90-NB

1. The Protocol in SMS Mode

1.1 SMS Format:

ID: IMEI Number

Date:hh:mm:ss dd/mm/yy

Fix:Device Position Status State:Event Status

Google map link

For example:

ID:865662000409210

Date:05:36:59 15/08/2015

Fix:A State:SOS

<http://maps.google.com/maps?q=+22.63146%2c+114.03701>

1.2 The parameter description

Parameter	Example	Description
ID	865662000409210	IMEI (15 digits)
Date	05:36:59 15/08/2015	hh:mm:ss dd/mm/yy
Fix	A/V	Position Status,A=valid,V=invalid
State	SOS	Event state(more detail please check 1.3)
Google Map link	http://maps.google.com/maps?q=+22.63146%2c+114.03701	

1.3 State in SMS Mode:

Status	Description
SMS	666 command
CALL	Phone positioning
SOS	SOS alarm
OS	Exit Geo-fence alarm
RS	Enter Geo-fence alarm
DEF	Cut power alarm
TOWED	Towed alarm
HT	High Temperature alert
BLP	Backup battery low voltage
CLP	Car Battery low voltage

2. The Protocol in LTE/HSPA/GPRS Mode

2.1 HSPA/GPRS Data Format:

#<IMEI>#<A>##<C>#<D>[CR][LF]

#<Base ID><Message ID>,<UTC time>,<Status>,<Latitude>,<N/S Indicator>,<Longitude>,<E/W Indicator>,<Speed Over Ground>,<Course Over Ground>,<Date>,,,<Checksum>,[CR][LF]##

For example:

#863835023427631#MT600#0000#AUTO#1

#a52d15e5803\$GPRMC,094632.00,A,2237.7776,N,11402.1399,E,0.07,309.62,030116,,,A*49##

2.2 The parameter description

Parameter	Example	Description
IMEI	863835023427631	IMEI (15 digits)
A	MT600	GPRS user name
B	0000	GPRS user password
C	AUTO	GPRS Status (more detail please check 2.3).
D	1	GPRS Upload data quantity
<CR><LF>		End of message termination
Base ID	262c0f48(2G SIM Card) a52d15e5803(3G SIM Card)	LAC+CI (Hex)
Message ID	\$GPRMC	RMC Protocol header
UTC time	094632.00	hhmmss.ss
Status	A	A=valid,V=invalid
Latitude	2237.7776	ddmm.mmmm
N/S Indicator	N	N=north or S=south
Longitude	11402.1399	Dddmm.mmmm
E/W Indicator	E	E=east or W=west
Speed Over Ground	0.07	knots
Course Over Ground	309.62	degrees
Date	030116	DDMMYY
Checksum	A*49	
<CR><LF>		End of message termination

2.3 Status in LTE/HSPA/GPRS Mode:

Status	Description
AUTOSTART	The upload status when ACC switch to ON
AUTOSTOP	The upload status when ACC switch to OFF
AUTO	ACC ON
AUTOLOW	ACC OFF and vehicle stop
TOWED	ACC OFF and vehicle Move
CALL	CALL alert
SOS	SOS alarm
DEF	Cut Power alarm
HT	High Temperature alert
BLP	Backup battery low voltage
CLP	Car Battery low voltage
OS	Out of the Geo-fence alarm
RS	Enter the Geo-fence alarm
OVERSPEED	Overs-peed alarm
SAFESPEED	Safe-speed alarm

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Any questions please do not hesitate to contact us:

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